



Military Operations in Urban Terrain Advanced Concept Technology Demonstration (MOUT ACTD)

Overview:

Urban centers have increasingly become the sites of conflict throughout the world, and will remain so as we move into the 21st century. The complexities of the urban environment such as line-of-sight restrictions, inherent fortifications, limited intelligence, densely constructed areas and the presence of noncombatants restricts our current military technology.

U.S. forces do not possess the overwhelming technology advantages in an urban environment as in other environments. The MOUT ACTD was formed to demonstrate the military utility of new technologies combined with operational concepts that will increase the lethality, survivability, mobility and command and control capabilities of soldiers and Marines operating in an urban environment.

Description:

The objective of the MOUT ACTD is to improve the operational effectiveness of soldiers and Marines operating in urban or built up areas through the integration of advanced technologies and associated tactics, techniques and procedures (TTPs). To focus the ACTD on providing solutions to the military need, the Army and Marine Corps developed 32 joint operational requirements based on operational deficiencies experienced by soldiers and Marines in past operations such as Grenada, Panama, Somalia, and Haiti. The requirements are rooted in four functional areas of focus: **C4I** (Command, Control, Communications, Computers and Intelligence), **Engagement**, **Force Protection** and **Mobility**.

An ongoing Technology Assessment Process (TAP) will identify technologies to address the MOUT operational requirements. The MOUT ACTD will focus on on-going technology developments in the Services, DARPA, other government agencies and industry. The operational effectiveness of technologies and supporting TTPs will be determined by modeling and simulation and through a series of live Army and Marine Corps experiments ranging from Squad level to Platoon level. The products that best meet the 32 operational requirements will be integrated into the MOUT ACTD "System of Systems" and undergo further experimentation at the Company level. The XVII Airborne Corps and the 2nd Marine Division MCSFLANT will then conduct a joint battalion level capstone exercise to assess the operational effectiveness of the integrated technologies and TTPs. Technologies that demonstrate significant operational effectiveness during the demonstration will become interim capabilities and will be supported for two years. The post-ACTD plan to acquire the capability across the force will be developed as part of the ACTD. The MOUT ACTD is a joint Army/Marine Corps ACTD with participation from the Defense Research projects Agency (DARPA). The U.S. Army Natick Soldier Center is the technology/acquisition lead. TRADOC/DBBL is the overall program lead, and MCCDC/MCWL is the USMC lead.



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